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Cover: Two papers in this issue report on children's health. Mary Grace Kovar, in the opening paper, observes that, by all the traditional measures, the health status of U.S. children has greatly improved. In the second paper, Dr. Stanley Greenspan describes how knowledge about infant development is employed to help babies in troubled families.

Two New Reports Published by Bureau of Radiological Health

■ Two new reports recommending ways to reduce unnecessary radiation exposure to pregnant women and dental patients have been published by the Food and Drug Administration's Bureau of Radiological Health. The recommendations encourage practices that the Bureau believes are valuable in reducing radiation exposure. The recommendations are voluntary, but since they are based on sound principles, widespread adoption is expected.

The first report discusses biological risks to the embryo and fetus from ionizing radiation and recommends ways in which unintentional medical X-ray exposure can be avoided or minimized. It emphasizes that circumstances surrounding medical radiological care are complex and that no single system applicable to patients will eliminate all problems relating to X-ray exposure.

Procedures to Minimize Diagnostic X-ray Exposure. FDA Publication No. 81-8178. National Technical Information Service, 5285 Port Royal Road, Springfield, Va. 22161. Order no. PB 82-110552. \$7.50.

The second report elaborates on the Agency's recommendations on dental X-ray examinations that are considered needless. Administrative radiographs are those requested by a remote third party for reasons not related to the patient's immediate dental needs.

The Agency recommends that third parties, including dental insurance carriers, should not require dental X-ray examinations unless they can demonstrate that such examinations provide a direct clinical benefit.

Administratively Required Dental Radiographs. FDA Publication No. 81-8176. National Technical Information Service, 5285 Port Royal Road, Springfield, Va. 22161. Order no. PB 82-117581, Microfiche, \$4. Also available from U.S. Government Printing Office, Washington, D.C. 20402 (Stock No. 017-015-00201-2) \$2.50.

education notes

Conference on infant development.

The John F. Kennedy Institute, the Johns Hopkins Medical Institutions, and the Society for Developmental Pediatrics will sponsor a conference, "Spectrum of Development Disabilities: Birth Through Infancy," March 15-17, 1982, in Baltimore, Md. This annual course will focus upon the early identification, evaluation, and treatment of developmental disabilities during the first 2 years of life and on related research issues. The registration fee is \$225. For further information, contact the Program Coordinator, Turner 22, 720 Rutland Ave., Baltimore, Md. 21205, telephone 301 955-6046.

Family practice symposium. The Medical College of Georgia will sponsor the Seventeenth Annual Family Practice Symposium to be held in Augusta. The symposium is scheduled for February 22-27, 1982, and will be repeated May 3-8, 1982. The program is designed to present a broad spectrum of material

important to physicians in family practice and other specialties that provide a substantial amount of primary care; the major emphasis will be on differential diagnosis and current management. The college's school of medicine has designated this continuing medical education activity as meeting the criteria for 50 credit hours in category 1 of the Physician's Recognition Award of the American Medical Association, and the American Academy of Family Physicians has accepted the program for 50 prescribed hours of credit. The registration fee is \$70 per day or \$325 for the entire course.

For further information, contact the Division of Continuing Education, Medical College of Georgia, Augusta, Ga. 30912, telephone (404) 828-3967.

Graduate program in health services administration. San Diego State University is accepting applications for the fall 1982 semester of the graduate program in health services administration. The program is designed for students seeking postbaccalaureate education in health

services administration and planning. It prepares students for professional careers in various health-related settings—ambulatory care, hospitals, planning agencies, public health agencies, health maintenance organizations, long-term care and mental health facilities, and other health care providers. The program, which usually requires 2 years to complete, provides broad-based education that is oriented toward the development of managerial and planning skills and toward the inclusion of substantial public health and management content. A special aim of the program is to train midlevel managers and persons with prior health care and clinical training and experience. The master of public health degree is awarded.

Further information and application materials may be obtained from Jack Brewer, Director of Admissions, College of Human Services, San Diego State University, San Diego, Calif. 92182, telephone (714) 265-5700.

Occupational and environmental health activities. The following activities for March and April 1982 have been announced by the Rocky Mountain Center for Occupational and Environmental Health (RMCOEH), University of Utah: Sampling and Evaluating Airborne Asbestos Dust (NIOSH course No. 582 plus Asbestos Advanced Topics), March 1-5 in Salt Lake City, tuition \$450; Fourth Annual RMCOEH Occupational and Environmental Health Conference, "Health Issues Related to Metal and Nonmetallic Mining," April 7-9, Park City, fee \$250; Rocky Mountain Comprehensive Review for Industrial Hygiene, April 26-30, Salt Lake City, tuition \$500.

For further information, contact Katharine C. Blosch, Director, Continuing Education, RMCOEH, Bldg. 512, Salt Lake City, Utah 84112, telephone (801) 581-5710.

Courses for professionals responsible for occupational health and safety. The Midwest Center for Occupational Health and Safety, an educational resource center sponsored by the National Institute of Occupational Safety and Health (NIOSH), has announced the following upcoming courses for the period of March-May, 1982 for professionals who are responsible for occupational health and safety.

The Occupational/Community Health Nurse and Human Relations, March 5, April 2, and May 14, St. Paul. Co-sponsored with School of Public Health and School of Nursing, University of Minnesota. Program is designed to assist occupational and community health nurses

recognize and manage mental health needs of adults. Topics will include concepts, problem detection, interviewing, and counseling. Each of three seminars will include lectures, group work, audiovisual materials, and role playing exercises. Credit toward nursing contact hours will be awarded. Tuition \$200.

Occupational and Environmental Pulmonary Diseases, March 6, St. Paul. Co-sponsored with Minnesota Lung Association, St. Paul-Ramsey Medical Center, and Continuing Medical Education of University of Minnesota. For physicians in the fields of pulmonary, occupational, and environmental medicine, and family and general medical practitioners. Nurses, industrial hygienists, and others with industrial health responsibilities are encouraged to attend. Seminar is designed to increase awareness and knowledge of occupational and environmental factors in pulmonary disease. American Medical Association category 1 credit will be awarded. Fee \$50.

Industrial Hygiene Sampling Strategies (NIOSH 553), March 10-12, St. Paul. For industrial hygienists and supervisors who are responsible for sampling industrial atmospheres, making decisions on such sample results, and taking appropriate action in compliance with Occupational and Safety Health Agency regulations. Course serves as an introduction to statistical sampling strategies, legal aspects of sampling strategies, fundamentals of statistics, estimation and decision I and II, exposure measurement sampling strategies, compliance versus noncompliance, full period sampling, grab sampling decisions, ceiling limit sampling, compliance officer sampling strategies, and statistical workshops. Three points toward maintenance of certification from the American Board of Industrial Hygiene and continuing education credits will be awarded. Tuition \$400.

Training and Certification for Pulmonary Function Testing, March 24-26, St. Paul. Co-sponsor will be St. Paul-Ramsey Medical Center. For occupational health nurses, physicians, health technicians, and other personnel involved in performance and interpretation of screening spirometry. Program will include didactic lectures and hands-on training in all facets of spirometry and practicum and written certification test. American Medical Association category 1 and nursing contact hours credit will be awarded. Tuition \$300.

Industrial Hygiene Certification Review, April 19-23, St. Paul. Audience: practicing industrial hygienists seeking a comprehensive review of the field. Course will provide an indepth review of industrial hygiene to help practicing

industrial hygienists prepare for the core and comprehensive practice examinations of the American Board of Industrial Hygiene. Techniques of study and test taking will also be reviewed. Continuing education units will be awarded. Tuition \$500.

Recognition of Accident Potential in the Workplace Due to Human Factors (NIOSH 512), April 28-30, St. Paul. Audience: professionals in the fields of safety, engineering, loss control, personnel, insurance, and other persons who have sufficient background to incorporate this kind of training into their present safety responsibilities. Course will enable students to identify the principal elements of accident causation and to apply methods for control. Content will include physiological and psychological factors, motivation and attitudes, group influences on behavior, individual characteristics, organizational impact on work, man-machine interface, performing a job analysis, and accident prevention. Maintenance of certification points from the American Board of Industrial Hygiene and continuing education units will be awarded. Tuition \$200.

Industrial Hygiene Air Sampling Methods (NIOSH 554), May 5-7, Minneapolis. For industrial hygienists and technicians responsible for sampling industrial atmospheres for contaminants and reporting the results of these samples. Course will review the selection, calibration, and use of industrial hygiene air sampling equipment. Continuing education units will be awarded. Tuition \$400.

Hazards, Monitoring and Control of Waste Anesthetic Agents, May 7, St. Paul. Audience: operating room supervisors and hospital personnel. Course will review the problems in use and control of anesthetic agents. Continuing education units will be awarded.

Professional Leadership in Agricultural Health and Safety, May 24-28, Iowa City. Audience: agricultural health and safety specialists and other persons interested in agricultural health and safety. Program will provide an opportunity for agricultural safety professionals to become more effective leaders through the development of a common core of understanding and methodology in agricultural safety and health. One graduate credit from the University of Iowa will be awarded. Tuition \$200.

Additional information about these courses and registration may be obtained from Ruth K. McIntyre, Director, Continuing Education, Midwest Center for Occupational Health and Safety, 640 Jackson St., St. Paul, Minn. 55101 or call (612) 221-3992.

publications

FEDERAL

Third International Radiopharmaceutical Dosimetry Symposium—Proceedings of a Conference held at Oak Ridge, Tenn., Oct. 7–10, 1980. Edited by Evelyn E. Watson, Audrey T. Schlafke-Stelson, Jack L. Coffey, and Roger J. Cloutier. DHHS Publication No. (FDA) 81–8166. \$11. GPO Stock No. 017–015–001946–6. U.S. Government Printing Office, Superintendent of Documents, Washington, D.C. 20402.

The Multidisabled: Emerging Responses. Reprint from Alcohol Health and Research World. Free single copies from National Clearinghouse for Alcohol Information, P.O. Box 2345, Rockville, Md. 20852. (Order No. RPO 317).

National Technical Information Services (NTIS), 5285 Port Royal Rd., Springfield, Va. 22161. Full payment must accompany orders, which should be identified by title and PB number.

A Community Health Center Information Guide and Documentation Resource. Softcover, Part I, \$6.50; Order No. PB 81–215543, Part II, \$11, Order No. PB 81–215550. \$3.50 microfiche each part.

Guide for the Filing of Annual Reports. DHHS Publication No. (FDA) 81–8127. Order No. PB 81–237083, \$6.50; \$3.50 microfiche.

Self-Assessment and Competency Assurance Education in Diagnostic Radiology Technology. DHHS Publication No. (FDA) 81–8171. Order No. PB 81–237448. \$6.50; \$3.50 microfiche.

Radiological Health Training Resources Catalog 1981. DHHS Publication No. (FDA) 81–8023. Single copies available by calling (301) 443–3532 or by writing to the Bureau of Radiologi-

cal Health (HFX–28) 5600 Fishers La., Rockville, Md. 20857.

NON-FEDERAL

A Guide to Emergency Health Management after Natural Disaster. 1981, 67 pages; \$6, Scientific Publication No. 407. (ISBN 92–75–11407–2). Pan American Health Organization, Pan American Sanitary Bureau, Regional Office of the World Health Organization, 525 23d St., NW., Washington, D.C. 20037.

Industry Response to Health Risk. Conference Board Report No. 811. 72 pages (ISBN 0–8237–0248–0). The Conference Board, Inc., 845 Third Ave., New York, N.Y. 10022.

The Pain Book. By Frederick W. L. Kerr, MD. November 1981, 192 pages; \$15.95 (ISBN 0–13–647826–3), softcover \$6.95 (ISBN 0–13–647818–2). Prentice-Hall, Inc., Englewood Cliffs, N.J. 07632.

World Food Resources and Population: The Narrowing Margin. By Lester Brown. Population Bulletin, Vol. 36, No. 3. September 1981, 44 pages; \$2 (ISSN 0032–468X). Population Reference Bureau, Inc. Circulation Dept., Box 35012, Washington, D.C. 20013.

Immunization: When and Why. Free copies from the Health and Safety Education Division, Metropolitan Life Insurance Company, One Madison Ave., New York, N.Y. 10010.

The Training and Support of Primary Care Workers. 1981, 336 pages; \$9 (\$7.50 for NCIH members), National Council for International Health, 2121 Virginia Ave., N.W., Suite No. 303, Washington, D.C. 20027.

200 Ways to Put Your Talent to Work in the Health Field. Single free copies from National Health Council, Dept. 200, 70 West 40th St., New York, N.Y.

10018. Bulk quantities may be ordered—at the prepaid price of 15¢ each.

Older Persons and Service Providers. By Glorian Sorensen, MPH. February 1981, 340 pages; \$24.95 (ISBN 0–89885–020–7). Human Sciences Press, Inc., 75 Fifth Ave., New York, N.Y. 10011.

Competition and Consumer Choice. National Health Care Legislative Proposals. Single free copies. 35¢ per copy for orders of 50 or more. Blue Cross and Blue Shield Association, 1700 Pennsylvania Ave., N.W., Washington, D.C. 20006.

Guidelines for the Investigative Function of Nurses. (D–69), \$1. Publication Orders, American Nurses' Association, 2420 Pershing Rd., Kansas City, Mo. 64108.

Public Health Agencies 1980: A Report on Their Expenditures and Activities. Free copies from National Public Health Program Reporting System, Association of State and Territorial Health Officials, 962 Wayne Ave., Suite 403, Silver Spring, Md. 20910.

Local Health Departments. Fifteen Case Studies. By C. Arden Miller and Merry-K. Moos, 1981, 525 pages; \$10 (softcover). American Public Health Association, 1015 Eighteenth St., NW., Washington, D.C. 20036.

Nutrition in the 1980s: Constraints on Our Knowledge. Edited by Philip L. White and Nancy Selvey. 1981, 600 pages; \$80. Alan R. Liss, Inc., 150 Fifth Ave., New York, N.Y. 10011.

The Quitting Game: How to Beat Your Smoking Habit. By Patricia West Barker. October 1981, 128 pages; \$6.95 (ISBN 0–8329–0218–7). New Century Publishers, Inc., 275 Old New Brunswick Rd., Piscataway, N.J. 08854.

Breast-Feeding in the Developing World: Current Patterns and Implications for Future Trends. By Mary Merderios Kent. June 1981, 43 pages; Reports on the World Fertility Survey (2). Single free copies from Population Reference Bureau, Circulation Dept., 1337 Connecticut Ave., N.W., Washington, D.C. 20036. \$1 for handling and postage.

The Clay Pedestal: A Re-examination of the Doctor-Patient Relationship. By Thomas Preston, MD. October 1981, 226 pages; hardcover \$12.95 (ISBN 0-914842-68-4). Madrona Publishers, Inc., 2116 Western Ave., Seattle, Wash. 98121.

Institute for Health Planning, 702 North Blackhawk Ave., Madison, Wis. 53705.

Lasting Illness: Challenge to Health Planning. September 1981, 10 pages; \$2.50 per copy, plus postage.

A Glossary of Health Care Delivery and Planning Terms. August 1981, 50 pages; \$3.50 per copy, plus postage.

Methods for Assessing Facility Modernization Pressures. August 1981, 47 pages; \$3.50 per copy, plus postage.

Gale Research Co., Book Tower, Detroit, Mich. 48226.

Health Maintenance Through Food and Nutrition: A Guide to Informa-

tion Sources. Edited by Helen D. Ulrich. November 1981, 305 pages; \$36 (ISBN 0-8103-1500-9).

Emergency Medical Services Systems: A Guide to Information Sources. Edited by Carlos Fernandez-Caballero and Marianne Fernandez-Caballero. December 1981, 183 pages; \$38 (ISBN 0-8103-1503-3).

Pancreatic Cancer. A series of workshops on the biology of human cancer. Report No. 12. Edited by Isidore Cohn, Jr., and Paul R. Hastings. UICC Technical Report Series, vol. 57. 1981, 142 pages; 20 Swiss francs; US \$11 (ISBN 92-9018-057-9). Managing Editor, International Union Against Cancer (UICC), 3 rue du Conseil-General, Ch 1205 Geneva, Switzerland.

Assessing the Elderly: A Practical Guide to Measurement. \$18.95 per copy; Lexington Books, D. C. Heath and Co., Lexington, Mass. 02173.

World Health Organization (WHO) Publications Centre, U.S.A., 49 Sheridan Ave., Albany, N.Y. 12210.

Health Statistics. Report on the Fourth European Conference, Luxembourg, 28-31 August 1979. EURO Reports and Studies No. 43. 1981, 38 pages; 4 Swiss francs (ISBN 92-890-1209-9).

Histological Typing of Endocrine Tumours. By E. D. Williams. 1980, 69

pages; illustrated. Book only, 58 Swiss francs, book with 146 colour transparencies, 204 Swiss francs (ISBN 92-4-176023-0). (Also available in French and Spanish.)

Intersectoral Coordination and Health in Environmental Management: An Examination of National Experience. By Morris Schaefer. 1981, 121 pages; 9 Swiss francs (Public Health Papers No. 74) (ISBN 92-4-170074-4). (French and Spanish editions in preparation.)

Peripheral Neuropathies. Report of a WHO Study Group. WHO Technical Reports Series No. 654. 1980, 138 pages; 9 Swiss francs (ISBN 92-4-120654-3). (French and Spanish editions in preparation.)

Prevention of Traffic Accidents in Childhood. By J. P. Deschamps. EURO Reports and Studies No. 26. 1981, 54 pages; 4 Swiss francs (ISBN 92-9020-1657).

WHO Expert Committee on Biological Standardization. WHO Technical Reports Series No. 658. 1981, 323 pages; 21 Swiss francs (ISBN 92-4-120658-6). (French and Spanish editions in preparation.)

The International Pharmacopoeia, 3d edition, Vol. 2: Quality Specifications. 1981, 342 pages; 36 Swiss francs (ISBN 92-4-154151-2). (French and Spanish editions in preparation.)

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